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## RAW SEQUENCE LISTING

DATE: 02/04/2002

PATENT APPLICATION: US/09/765,061B

TIME: 13:02:31

Input Set : A:\Copy of SQ-09765061.txt

Output Set: N:\CRF3\02042002\I765061B.raw

W--> 2 <110> APPLICANT: Board of Regents of the University of Texas System  
 4 <120> TITLE OF INVENTION: Mutations in a Novel Photoreceptor-pineal gene 17P cause  
 5 leber congenital amaurosis (LCA4)  
 7 <130> FILE REFERENCE: 96606/16UTL  
 8 <140> CURRENT APPLICATION NUMBER: 09/765,061B  
 9 <141> CURRENT FILING DATE: 2001-01-17  
 11 <160> NUMBER OF SEQ ID NOS: 78  
 12 <170> SOFTWARE: PatentIn version 3.1  
 14 <210> SEQ ID NO: 1  
 15 <211> LENGTH: 6689  
 16 <212> TYPE: DNA  
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 21 <221> NAME/KEY: gene  
 22 <222> LOCATION: (1)..(6689)  
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 24 interacting protein-like 1  
 26 <220> FEATURE:  
 27 <221> NAME/KEY: misc\_feature  
 28 <222> LOCATION: (1897)..(1906)  
 29 <223> OTHER INFORMATION: n represents any of the four nucleotides A T G or C  
 31 <220> FEATURE:  
 32 <221> NAME/KEY: misc\_feature  
 33 <222> LOCATION: (3946)..(3946)  
 34 <223> OTHER INFORMATION: n represents any of the four nucleotides A T G or C  
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 41 accctgggca ggggcccaga atcactggaa gcaaagggtg atgggatagg aggcgaggct 180  
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 57 cggggagctc ccagcgttta ccatttcagg gggcattttt ggtactttgc agattcaact 660  
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 63 gactgaaggg tgcgtctgtg gctacagaat tcgggctttg gccaggcgag gcggctcccc 840  
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 67 accagcctga ccaacatgtg aaaccccatc tctactgaaa atacaaaaat tagccagatg 960  
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 75 ggaaggattt ctggacgcac agggctgtgg ggagtggaat ggggtctgta gggaggggtg 1200  
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 87 gagatcctgc ttacctccat gcgggtgcac gaggtggccg agttctgggt cgacaccatc 1560  
 89 gtaagtaggc cctgcgcgcc tgtctcctgg gactagtctt ttctgggctc acccaccgc 1620  
 91 tttgcggggc tgtgtgtgtt cgggaaagct gggactcaag cgaagctttg caaagccagt 1680  
 93 cctgcaaact tattcccac cgtgtgcatg tgaagatgga gggaacaagg gctggaagg 1740  
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 97 cccacttcac agtccctaca tctgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 1860  
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 105 ctgggggctg ctgagtcagg gccaaagggg gccctcctc gcagtaagct ggttctgggg 2100  
 107 cctctccctc ccttgggtcca gctcttaate ccaacaggct caacagccat ctgcttgtct 2160  
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 159 aatcccagct acttgggaat ttgaggcatg agaattgctt gaacctggaa gtggagggtg 3720  
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 165 **W** ttcattgtgg aggcatttta tccacttcca ctttcatttt caggagtgg agattataac 3900  
 167 cgcctccttg gttcctgtgg tttgtgggtt cagacttggg tctctngtgg cgggagaggc 3960

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183 aaagacattg atttagggca gggttttcgg cgttggtgtt tctttccctt gtctgtatgc 4440
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259 ctggagctta gcctgagagg ggttcttgc 6689
263 <210> SEQ ID NO: 2
264 <211> LENGTH: 1119
265 <212> TYPE: DNA

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266 <213> ORGANISM: Papio anubis
268 <220> FEATURE:
269 <221> NAME/KEY: gene
270 <222> LOCATION: (1)..(1119)
271 <223> OTHER INFORMATION: the AIPL1 gene produces aryl-hydrocarbon receptor
272     interacting protein-like 1
274 <400> SEQUENCE: 2
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280 aaatgtgatg aggagcgcac ggtcatcgac gacagccggc aggtggacca gcccatgcac    180
282 atcatcatcg ggaacatggt caagctcgag gtctgggaga tctgtctcac ctccatgagg    240
284 gtgcacgagg tggccgagtt ctggtgcgac accatccaca cgggggtcta ccccatcctg    300
286 tcccgaggcc tgcggcagat ggcccagggc aaggacccca cggagtggca cgtgcacaca    360
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290 cagaaggagc ctacgcctct gatctttgtg atcgagctgc tgcaggttga cgtcccaggt    480
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300 ctgaagaagg aggagtatta cgagggtctg gagcacacca gtgacattct ccggcaccac    780
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306 gtgcgcaggg agctgaggct gctggagaac cgcattggcag agaagcagga ggaggagcgg    960
308 ctgcgtgcc  ggaacatgct gagccaggga gccacgcagc ctccacaga gccaccggca   1020
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316 <210> SEQ ID NO: 3
317 <211> LENGTH: 1155
318 <212> TYPE: DNA
319 <213> ORGANISM: Pan troglodytes
321 <220> FEATURE:
322 <221> NAME/KEY: gene
323 <222> LOCATION: (1)..(1155)
324 <223> OTHER INFORMATION: the AIPL1 gene produces aryl-hydrocarbon receptor
325     interacting protein-like 1
327 <400> SEQUENCE: 3
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332 aaatgtgatg aggagcggac agtcattgac gacagccggc aggtgggcca gcccatgcac    180
334 atcatcatcg gaaacatggt caagctcgag gtctgggaga tctgtgttac ctccatgcgg    240
336 gtgcacgagg tggccgagtt ctggtgcgac accatccaca caggggtcta ccccatcctg    300
338 tcccgaggcc tgaggcagat ggcccagggc aaggacccca cagagtggca cgtgcacaca    360
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342 cagaaggagc ctacgcctct ggtctttgtg atcgagctgc tgcaggttga tgccccaggt    480
344 gattaccaga gggagacctg gaacctgagc aatcatgaga agatgaaggc ggtgcccgtc    540
346 ctccacggcg agggaaatcg gctcttcaag ctgggacgct acgaggaggc ctcttccaag    600
348 taccaggagg ccatcatctg cctaaggaac ctgcagacca aggagaagcc gtgggagggt    660
350 cagtggctga agctggagaa gatgatcaat actctgatcc tcaactactg ccagtgcctg    720
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358 gtgcgcaggg agctgaggct gctggagaac cgcattggcg agaagcagga ggaggagcg 960
360 ctgcgctgcc ggaacatgct gagccagggt gccacgcagc ctccggcaga gccaccaca 1020
362 gagccacccg cacagtcata cacagagcca cctgcagagc caccgccagc accatctgca 1080
364 gagctgtccg cagggccacc tgcagagaca gccacagagc caccgccgct cccagggcac 1140
366 tcgctgcagc actga 1155
370 <210> SEQ ID NO: 4
371 <211> LENGTH: 1060
372 <212> TYPE: DNA
373 <213> ORGANISM: Bos taurus
375 <220> FEATURE:
376 <221> NAME/KEY: gene
377 <222> LOCATION: (1)..(1060)
378 <223> OTHER INFORMATION: the AIPL1 gene produces aryl-hydrocarbon receptor
379 interacting protein-like 1
381 <400> SEQUENCE: 4
382 atggatgcca ctctgctcct gaatgtggaa gggatcaaga aaaccattct gcatgggggc 60
384 acaggggacc tcccacactt cattactgga gcccgagtga cctttcattt ccgaacctg 120
386 aaatgtgatg aggacggac ggtgatagac gacagcaagc aggtgggcca tccatgcac 180
388 atcatcattg ggaacatggt caagctggag gtctgggaga tcttgctgac gtccatgcg 240
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398 cagtaccaga gggagacctg gaacctgaat aaccaggaga agatgcaggc ggtgcccata 540
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404 cagtggctga agctggagaa gatgatcaac accctgatcc tgaactactg tcagtgtctg 720
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408 ccaggcatcg tgaaggccta ctatgtgagg gcccgggctc acgccgaggt gtggaatgag 840
410 gccgaagcca aggcggatct ggagaaagtg ctggagctgg agccgtccat gcggaaggcg 900
412 gtgcagaggg agctgaggct gctggagaac cggctggagg agaaacgcga ggaggagcga 960
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420 <211> LENGTH: 925
421 <212> TYPE: DNA
422 <213> ORGANISM: Canis familiaris
424 <220> FEATURE:
425 <221> NAME/KEY: gene
426 <222> LOCATION: (1)..(925)
427 <223> OTHER INFORMATION: the AIPL1 gene produces aryl-hydrocarbon receptor
428 interacting protein-like 1
430 <400> SEQUENCE: 5
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433 tccgcacaac gaaatgcgac gaggcgcgga cagtgatcga cgacagcaag cgtgtgggcc 120
435 atcccatgca catcatcata ggaacatgt tcaagctgga ggtctgggag gtgctgctga 180
437 catccatgcg cgtgggcgag gtggccgagt tctggtgcga ctctattcac acaggagtct 240

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→ Use of n and/or Xaa has been detected in the Sequence Listing.  
Review the Sequence Listing to insure a corresponding  
explanation is presented in the <220> to <223> fields of  
each sequence using n or Xaa.

VERIFICATION SUMMARY

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Input Set : A:\Copy of SQ-09765061.txt

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L:8 M:283 W: Missing Blank Line separator, <140> field identifier

L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

L:1717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72